EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	75	(Day-Paul-reuben muras-brian).in. and "707".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 11:33
L12	2	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4) and "international business machines". as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:34
L16	10	(Day-Paul-reuben muras-brian).in. and 707/3.ccls.	US-PGPUB	OR	OFF	2007/10/29 12:36
L15	73	(Day-Paul-reuben muras-brian).in.	US-PGPUB	OR	OFF	2007/10/29 12:36
L13	5	("707").clas. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4) and "international business machines". as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:36
L2	24	(Day-Paul-reuben muras-brian).in. and 707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:36
L1	193	(Day-Paul-reuben muras-brian).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:36
L18	249	(707/3 707/2).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language"))	US-PGPUB	OR	OFF	2007/10/29 12:37
L17	9	(Day-Paul-reuben muras-brian).in. and "707".clas. and (concurrent$3 simoutanious$3)	US-PGPUB	OR	OFF	2007/10/29 12:37

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L22	1	(query near5 plan and bitmap same (("1" or one or active) and ("0" or zero or inactive)) and statistic$).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:38
L21	0	((concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)).clm.	US-PGPUB	OR	OFF	2007/10/29 12:38
L24	38	(query adj (optimization efficien$4)) and (bitmap or (bit adj map))	US-PGPUB	OR	OFF	2007/10/29 12:39
L23	1	(query near5 plan and bitmap same (("1" or one or active) and ("0" or zero or inactive))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:39
L26	32	(query adj (optimization efficien$4)) and (bitmap or (bit adj map)) and "707".clas.	US-PGPUB	OR	OFF	2007/10/29 12:40
L25	38	(query adj (optimization efficien$4)) and (bitmap or (bit adj map))	US-PGPUB	OR	OFF	2007/10/29 12:40
L29	3	(Bitmap or (bit adj map)) and 707/1-4.ccls. and 707/100-101.ccls. and optimization and L7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:54
L28	36	(Bitmap or (bit adj map)) and 707/1-4.ccls. and 707/100-101.ccls. and optimization	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:54
L9	55	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:56
L31	22	(707/1-5).ccls. and (concurrent$3 simoutanious$3 parallel$3) same ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:57

EAST Search History

L30	108	(707/1-5).ccls. and (concurrent$3 simoutanious$3 parallel$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 12:57
L4	19	(Day-Paul-reuben muras-brian).in. and "707".clas. and (concurrent$3 simoutanious$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:18
L34	65	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:19
L33	1038	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:19
L32	20	(Day-Paul-reuben muras-brian).in. and "707".clas. and (concurrent$3 simultan$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:19
L36	60	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) and (optimiz$5 efficien$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:20
L35	60	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) and (optimiz$5 efficien$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:20
L10	50	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) and (optimiz$5 efficien$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:20

EAST Search History

L39	7	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)	US-PGPUB	OR	OFF	2007/10/29 13:21
L38	479	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language"))	US-PGPUB	OR	OFF	2007/10/29 13:21
L37	15	(707/1-5).ccls. and (concurrent$3 simultan$5) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:21
L20	4	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)	US-PGPUB	OR	OFF	2007/10/29 13:21
L19	400	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language"))	US-PGPUB	OR	OFF	2007/10/29 13:21
L11	10	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:21
L42	4	(query adj (optimization efficien$4)) and (bitmap or (bit adj map)) and (concurrent$3 simultan$5) and "707".clas.	US-PGPUB	OR	OFF	2007/10/29 13:22
L41	12	(query adj (optimization efficien$4)) and (bitmap or (bit adj map)) and (concurrent$3 simultan$5 parallel$3) and "707".clas.	US-PGPUB	OR	OFF	2007/10/29 13:22
L40	4	(query adj (optimization efficien$4)) and (bitmap or (bit adj map)) and (concurrent$3 simultan$5) and "707".clas.	US-PGPUB	OR	OFF	2007/10/29 13:22
L27	4	(query adj (optimization efficien$4)) and (bitmap or (bit adj map)) and (concurrent$3 simoutanous$3) and "707".clas.	US-PGPUB	OR	OFF	2007/10/29 13:22

L44	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:23
L43	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)).clm.	US-PGPUB	OR	OFF	2007/10/29 13:23
L14	3	("707").clas. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4) and "international business machines". as.	US-PGPUB	OR	OFF	2007/10/29 13:23
L47	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and (quer$3 request$3) and (sql or "structured query language") and (bitmap or (bit adj map) or bit-map)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:24
L46	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and ((quer$3 request$3) and (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:24
L45	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and ((quer$3 request$3) and (sql or "structured query language")) and (bitmap or (bit adj map) or bit-map) same (optimiz$5 efficien$4)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:24
L49	0	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and (quer$3 request$3) and (sql or "structured query language") and (bitmap or (bit adj map) or bit-map)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:25

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L48	291	("707").clas. and ((concurrent$3 simultan$5 parallel$3) and (quer$3 request$3) and (sql or "structured query language") and (bitmap or (bit adj map) or bit-map))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:25
L51	1229	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and task and (quer$3 request$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:26
L50	909	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and task and query	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:26
L7	869	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and ((quer$3 request$3) same (sql or "structured query language"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:26
L52	92	(707/1-5).ccls. and (concurrent$3 simoutanious$3) and task and (quer$3 request$) and (bitmap or "bit-map" or (bit adj map))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:27
L54	1	((concurrent$3 simoutanious$3) and task and (quer$3 request$) and (bitmap or "bit-map" or (bit adj map))).clm.	US-PGPUB	OR	OFF	2007/10/29 13:29
L53	1	(707/1-5).ccls. and ((concurrent$3 simoutanious$3) and task and (quer$3 request$) and (bitmap or "bit-map" or (bit adj map))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:29
L57	1	((concurrent$3 simoutanious$3) and background adj task).clm.	US-PGPUB	OR	OFF	2007/10/29 13:30
L56	241	((concurrent$3 simoutanious$3) and task).clm.	US-PGPUB	OR	OFF	2007/10/29 13:30
L55	0	((concurrent$3 simoutanious$3) and background adj task and (quer$3 request$) and (bitmap or "bit-map" or (bit adj map))).clm.	US-PGPUB	OR	OFF	2007/10/29 13:30

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L62	169	((concurrent$3 simultan$5 parallel$4) and task and database).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:31
L61	0	((concurrent$3 simultan$5 parallel$4) and background adj task and database).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:31
L60	0	((concurrent$3 simultan$5) and background adj task and database).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:31
L59	14	((concurrent$3 simultan$5) and background adj task).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:31
L58	2	((concurrent$3 simultan$5) and background adj task).clm.	US-PGPUB	OR	OFF	2007/10/29 13:31
L66	1	((concurrent$3 simultan$5 parallel$4) and task and database and (bitmap "bit-map" "bit map")).clm. and "707".clas.	US-PGPUB	OR	ON	2007/10/29 13:32
L65	1	((concurrent$3 simultan$5 parallel$4) and task and database and (bitmap "bit-map" "bit map")).clm. and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 13:32
L64	1	((concurrent$3 simultan$5 parallel$4) and task and database and (bitmap "bit-map" "bit map")).clm. and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:32

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L63	61	((concurrent$3 simultan$5 parallel$4) and task and database).clm. and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/29 13:32
L68	209	(database and (bitmap "bit-map" "bit map")).clm.	US-PGPUB	OR	ON	2007/10/29 13:33
L67	2	((concurrent$3 simultan$5 parallel$4) and task and database and (bitmap "bit-map" "bit map")).clm.	US-PGPUB	OR	ON	2007/10/29 13:33
L69	21	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0")).clm.	US-PGPUB	OR	ON	2007/10/29 13:34
L71	4	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0") and (concurrent$3 simultan$5 parallel$3)).clm. and "707".clas.	US-PGPUB	OR	ON	2007/10/29 13:35
L70	5	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0") and (concurrent$3 simultan$5 parallel$3)).clm.	US-PGPUB	OR	ON	2007/10/29 13:35
L73	9	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0") and (concurrent$3 simultan$5 parallel$3)).clm. and "707".clas. and optimiz$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 13:36
L72	10	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0") and (concurrent$3 simultan$5 parallel$3)).clm. and "707".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 13:36
L74	9	(database and (bitmap "bit-map" "bit map") and (active 1 inactive "0") and (concurrent$3 simultan$5 parallel$3)).clm. and "707".clas. and (optimiz$5 efficien$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/29 13:37

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61 Services: ELF: an efficient log-structured flash file system for micro sensor nodes ▬
Hui Dai, Michael Neufeld, Richard Han
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04**
Publisher: ACM Press

Full text available: 🅰 pdf(291.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

An efficient and reliable file storage system is important to micro sensor nodes so that data can be logged for later asynchronous delivery across a multi-hop wireless sensor network. Designing and implementing such a file system for a sensor node faces various challenges. Sensor nodes are highly resource constrained in terms of limited runtime memory, limited persistent storage, and finite energy. Also, the flash storage medium on sensor nodes differs in a variety of ways from the traditiona ...

Keywords: eeprom, file system, flash, log structured, reliability, sensor

62 Technical session 7: multimedia systems: Implementation and evaluation of EXT3NS ▬
multimedia file system
Baik-Song Ahn, Sung-Hoon Sohn, Chei-Yol Kim, Gyu-Il Cha, Yun-Cheol Baek, Sung-In Jung, Myung-Joon Kim
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**
Publisher: ACM Press
Full text available: 🅰 pdf(524.49 KB)   Additional Information: full citation, abstract, references, index terms

The EXT3NS is a scalable file system designed to handle video streaming workload in large-scale on-demand streaming services. It is based on a special H/W device, called Network-Storage card (NS card), which aims at accelerating streaming operation by shortening the data path from storage device to network interface. The design objective of EXT3NS is to minimize the delay and the delay variance of I/O request in the sequential workload on NS card. Metadata structure, file organization, metada ...

Keywords: file system, multimedia, streaming, video server

63   ▬

Performance of ad hoc networks: A bidirectional multi-channel MAC protocol for

improving TCP performance on multihop wireless ad hoc networks

Tianbo Kuang, Carey Williamson

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '04**

Publisher: ACM Press

Full text available: 🔁 pdf(210.93 KB)   Additional Information: full citation, abstract, references, index terms

The TCP protocol often suffers from performance problems in conventional single-channel multihop wireless ad hoc networks. The problems arise from hidden node and exposed node issues, which can lead to channel contention in the forward direction between TCP DATA packets that are part of the same TCP flow control window, as well as contention between TCP DATA and TCP ACK packets flowing in opposite directions. In this paper, we propose and evaluate a novel bidirectional multi-channel MAC protocol ...

Keywords: TCP performance, multihop wireless ad hoc networks, ns-2, simulation

64 A unified theory of garbage collection

David F. Bacon, Perry Cheng, V. T. Rajan

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10

Publisher: ACM Press

Full text available: 🔁 pdf(223.52 KB)   Additional Information: full citation, abstract, references, index terms

Tracing and reference counting are uniformly viewed as being fundamentally different approaches to garbage collection that possess very distinct performance properties. We have implemented high-performance collectors of both types, and in the process observed that the more we optimized them, the more similarly they behaved - that they seem to share some deep structure.

We present a formulation of the two algorithms that shows that they are in fact duals of each other. Intuitively, the ...

Keywords: graph algorithms, mark-and-sweep, reference counting, tracing

65 Fast Paths in Concurrent Programs

Wen Xu, Sanjeev Kumar, Kai Li

September 2004 **Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques PACT '04**

Publisher: IEEE Computer Society

Full text available: 🔁 pdf(322.08 KB)   Additional Information: full citation, abstract

Compiling concurrent programs to run on a sequential processor presents a difficult tradeoff between execution time and size of generated code. On one hand, the process-based approach to compilation generates reasonable sized code but incurs significant execution overhead due to concurrency. On the other hand, the automata-based approach incurs a much smaller execution overhead but can result in code that is several orders of magnitude larger. This paper proposes a way of combining the two appro ...

66 Exploiting *k*-constraints to reduce memory overhead in continuous queries over data streams

Shivnath Babu, Utkarsh Srivastava, Jennifer Widom

September 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(423.78 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

Continuous queries often require significant run-time state over arbitrary data streams. However, streams may exhibit certain data or arrival patterns, or *constraints*, that can be detected and exploited to reduce state considerably without compromising correctness. Rather than requiring constraints to be satisfied precisely, which can be unrealistic in a data streams environment, we introduce *k-constraints*, where *k* is an *adherence parameter* specifying how closely a st ...

Keywords: Continuous queries, constraints, data streams

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67 Modern concurrency abstractions for C#

Nick Benton, Luca Cardelli, Cédric Fournet
September 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 26 Issue 5
Publisher: ACM Press

Full text available: pdf(260.10 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Polyphonic C$^{\#}$ is an extension of the C$^{\#}$ language with new asynchronous concurrency constructs, based on the join calculus. We describe the design and implementation of the language and give examples of its use in addressing a range of concurrent programming problems.

Keywords: Asynchrony, chords, events, join calculus, messages, polyphonic C$^{\#}$, synchronization, threads

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68 Research sessions: indexing and tuning: Integrating vertical and horizontal partitioning into automated physical database design

Sanjay Agrawal, Vivek Narasayya, Beverly Yang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**
Publisher: ACM Press

Full text available: pdf(181.69 KB)   Additional Information: full citation, abstract, references, citings

In addition to indexes and materialized views, horizontal and vertical partitioning are important aspects of physical design in a relational database system that significantly impact performance. Horizontal partitioning also provides manageability; database administrators often require indexes and their underlying tables partitioned identically so as to make common operations such as backup/restore easier. While partitioning is important, incorporating partitioning makes the problem of automatin ...

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69 New technologies in system design: Automatic generation of equivalent architecture model from functional specification

Samar Abdi, Daniel Gajski
June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04**
Publisher: ACM Press

Full text available: pdf(226.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an algorithm for automatic generation of an architecture model from a functional specification, and proves its correctness. The architecture model is generated by distributing the intended system functionality over various components in the platform architecture. We then define simple transformations that preserve the execution semantics of system level models. Finally, the model generation algorithm is proved

correct using our transformations. As a result, we have an automat ...

Keywords: formal verification, model refinement, system level design

70 Full papers: Tree bitmap: hardware/software IP lookups with incremental updates
Will Eatherton, George Varghese, Zubin Dittia
April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(189.39 KB)   Additional Information: full citation, abstract, references, citings

Even with the significant focus on IP address lookup in the published literature as well as focus on this market by commercial semiconductor vendors, there is still a challenge for router architects to find solutions that simultaneously meet 3 criteria: scaling in terms of lookup speeds as well as table sizes, the ability to perform high speed updates, and the ability to fit into the overall memory architecture of an Level 3 forwarding engine or packet processor with low systems cost overhead. I ...

71 Database theory, technology and applications (DTTA): Creation and management of versions in multiversion data warehouse
Bartosz B☐bel, Johann Eder, Christian Koncilia, Tadeusz Morzy, Robert Wrembel
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**
Publisher: ACM Press
Full text available: pdf(516.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

A data warehouse (DW) provides an information for analytical processing, decision making, and data mining tools. On the one hand, the structure and content of a data warehouse reflects a real world, i.e. data stored in a DW come from real production systems. On the other hand, a DW and its tools may be used for predicting trends and simulating a virtual business scenarios. This activity is often called the what-if analysis. Traditional DW systems have static structure of their schemas and relati ...

Keywords: data warehouse, integrity constraints, versioning

72 Algorithms: Bitmap algorithms for counting active flows on high speed links
Cristian Estan, George Varghese, Mike Fisk
October 2003 **Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement IMC '03**
Publisher: ACM Press
Full text available: pdf(330.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high speed link. Such counting can be used to detect DoS attacks and port scans, and to solve measurement problems. Counting is especially hard when processing must be done within a packet arrival time (8 nsec at OC-768 speeds) and, hence, must require only a small number of accesses to limited, fast memory. A naive solution that maintains a hash table r ...

Keywords: counting flows, network traffic measurement

73 An on-the-fly mark and sweep garbage collector based on sliding views
Hezi Azatchi, Yossi Levanoni, Harel Paz, Erez Petrank

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press

Full text available: pdf(244.12 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

With concurrent and garbage collected languages like Java and C# becoming popular, the need for a suitable non-intrusive, efficient, and concurrent multiprocessor garbage collector has become acute. We propose a novel mark and sweep on-the-fly algorithm based on the sliding views mechanism of Levanoni and Petrank. We have implemented our collector on the Jikes Java Virtual Machine running on a Netfinity multiprocessor and compared it to the concurrent algorithm and to the stop-the-world collecto ...

Keywords: concurrent garbage collection, garbage collection, memory management, on-the-fly garbage collection, runtime systems

74 <u>Heap compression for memory-constrained Java environments</u>

G. Chen, M. Kandemir, N. Vijaykrishnan, M. J. Irwin, B. Mathiske, M. Wolczko
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press

Full text available: pdf(2.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Java is becoming the main software platform for consumer and embedded devices such as mobile phones, PDAs, TV set-top boxes, and in-vehicle systems. Since many of these systems are memory constrained, it is extremely important to keep the memory footprint of Java applications under control.The goal of this work is to enable the execution of Java applications using a smaller heap footprint than that possible using current embedded JVMs. We propose a set of memory management strategies to reduce h ...

Keywords: Java virtual machine, garbage collection, heap, memory compression

75 <u>Parallel Cell Projection Rendering of Adaptive Mesh Refinement Data</u>

Gunther H. Weber, Martin Ohler, Oliver Kreylos, John M. Shalf, E. Wes Bethel, Bernd Hamann, Gerik Scheuermann
October 2003 **Proceedings of the 2003 IEEE Symposium on Parallel and Large-Data Visualization and Graphics PVG '03**
Publisher: IEEE Computer Society
Full text available: pdf(284.91 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

Adaptive Mesh Refinement (AMR) is a technique used in numerical simulations to automatically refine (or de-refine) certain regions of the physical domain in a finite difference calculation. AMR data consists of nested hierarchies of data grids. As AMR visualization is still a relatively unexplored topic, our work is motivated by the need to perform efficient visualization of large AMR data sets. We present a software algorithm for parallel direct volume rendering of AMR data using a cell-project ...

Keywords: volume rendering, adaptive mesh refinement, load balancing, multi-grid methods, parallel rendering, visualization

76 <u>Xen and the art of virtualization</u>

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf

Neugebauer, Ian Pratt, Andrew Warfield
October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5
Publisher: ACM Press

Full text available: pdf(168.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

77 Transport protocols: A receiver-centric transport protocol for mobile hosts with heterogeneous wireless interfaces
Hung-Yun Hsieh, Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar
September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking MobiCom '03**
Publisher: ACM Press

Full text available: pdf(577.61 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Numerous transport protocols have been proposed in related work for use by mobile hosts over wireless environments. A common theme among the design of such protocols is that they specifically address the distinct characteristics of the last-hop wireless link, such as random wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that due to the defining role played by the wireless link on a connection's performance, locating the intelligence of a transport ...

Keywords: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host, seamless handoff, server migration

78 Fowarding: Packet classification using multidimensional cutting
Sumeet Singh, Florin Baboescu, George Varghese, Jia Wang
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**
Publisher: ACM Press

Full text available: pdf(273.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a classification algorithm called phHyperCuts. Like the previously best known algorithm, HiCuts, HyperCuts is based on a decision tree structure. Unlike HiCuts, however, in which each node in the decision tree represents a hyperplane, each node in the HyperCuts decision tree represents a k--dimensional hypercube. Using this extra degree of freedom and a new set of heuristics to find optimal hypercubes for a given amount of storage, HyperCuts can provide an order of m ...

Keywords: QoS, firewalls, packet classification

79 PSoup: a system for streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin

August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(267.99 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Abstract.Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad hoc and continuous queries by treating data and ...

Keywords: Disconnected operation, Query-data duality, Stream query processing

80 <u>Online analytic processing (OLAP): Spreadsheets in RDBMS for OLAP</u>

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Gregory Dorman, Nathan Folkert, Abhinav Gupta, Lei Shen, Sankar Subramanian

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(182.22 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

One of the critical deficiencies of SQL is lack of support for n-dimensional array-based computations which are frequent in OLAP environments. Relational OLAP (ROLAP) applications have to emulate them using joins, recently introduced SQL Window Functions [18] and complex and inefficient CASE expressions. The designated place in SQL for specifying calculations is the SELECT clause, which is extremely limiting and forces the user to generate queries using nested views, subqueries and complex joins ...

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81 Migration: Optimizing the migration of virtual computers   ▬
Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press

Full text available: 📄 pdf(1.68 MB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes.We have chosen to move *x*86 computer states because *x*86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, *x*86 c ...

82 Implementation and evaluation of a QoS-capable cluster-based IP router   ▬
Prashant Pradhan, Tzi-cker Chiueh
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**
Publisher: IEEE Computer Society Press

Full text available: 📄 pdf(215.68 KB)   Additional Information: full citation, abstract, references, index terms

A major challenge in Internet edge router design is to support both high packet forwarding performance and versatile and efficient packet processing capabilities. The thesis of this research project is that a cluster of PCs connected by a high speed system area network provides an effective hardware platform for building routers to be used at the edges of the Internet. This paper describes a scalable and extensible edge router architecture called *Panama*, which supports a novel aggregate r ...

83 Groupware infrastructure: Transparent sharing and interoperation of heterogeneous   ▬
single-user applications
Du Li, Rui Li
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**
Publisher: ACM Press

Full text available: 📄 pdf(376.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

Multi-user applications generally lag behind in features or compatibility with single-user

applications. As a result, users are often not motivated to abandon their favorite single-user applications for groupware features that are less frequently used. A well-accepted approach, *collaboration transparency*, is able to convert off-the-shelf single-user applications into groupware without modifying the source code. However, existing systems have been largely striving to develop generic applic ...

Keywords: application sharing, collaboration transparency, group editing, heterogeneity, interoperation

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84 Centaurus: an infrastructure for service management in ubiquitous computing environments
Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6
Publisher: Kluwer Academic Publishers

Full text available: 🗎 pdf(553.67 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

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85 Streaming queries over streaming data
Sirish Chandrasekaran, Michael J. Franklin
August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment

Full text available: 🗎 pdf(205.96 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real-time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require the processing of data that arrives prior to query submission or during a period of disconnection. For such applications, we have developed PSoup, a system that combines the processing of ad-hoc and continuous queries by treating data and querie ...

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86 Lightweight flexible isolation for language-based extensible systems
Laurent Daynès, Grzegorz Czajkowski
August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment

Full text available: 🗎 pdf(112.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Safe programming languages encourage the development of dynamically extensible systems, such as extensible Web servers and mobile agent platforms. Although protection is of utmost importance in these settings, current solutions do not adequately address fault containment. This paper advocates an approach to protection where transactions act as protection domains. This enables direct sharing of objects while protecting against unauthorized accesses and failures of authorized components. The ma ...

87 Non-photorealistic rendering: Curve analogies

Aaron Hertzmann, Nuria Oliver, Brian Curless, Steven M. Seitz

July 2002 **Proceedings of the 13th Eurographics workshop on Rendering EGRW '02**

Publisher: Eurographics Association

Full text available: pdf(384.18 KB)   Additional Information: full citation, abstract, references, citings

> This paper describes a method for learning statistical models of 2D curves, and shows how these models can be used to design line art rendering styles by example. A user can create a new style by providing an example of the style, e.g. by sketching a curve in a drawing program. Our method can then synthesize random new curves in this style, and modify existing curves to have the same style as the example. This method can incorporate position constraints on the resulting curves.

88 Reducing pause time of conservative collectors

Toshio Endo, Kenjiro Taura

June 2002 **ACM SIGPLAN Notices , Proceedings of the 3rd international symposium on Memory management ISMM '02**, Volume 38 Issue 2 supplement

Publisher: ACM Press

Full text available: pdf(182.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper describes an incremental conservative garbage collector that significantly reduces pause time of an existing collector by Boehm et al. Like their collector, it is a true conservative collector that does not require compiler cooperation but uses virtual memory primitives (page protection) of operating systems for write barriers. While much successful work has been done on incremental collectors in general, achieving small pause time of the order of a few milliseconds in such uncooperat ...

Keywords: concurrent garbage collection, conservative garbage collection, memory management, parallel garbage collection

89 Research sessions: implementation techniques: Fractal prefetching B$^+$-Trees: optimizing both cache and disk performance

Shimin Chen, Phillip B. Gibbons, Todd C. Mowry, Gary Valentin

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.49 MB)   Additional Information: full citation, abstract, references, citings, index terms

> B$^+$-Trees have been traditionally optimized for I/O performance with disk pages as tree nodes. Recently, researchers have proposed new types of B$^+$-Trees optimized for CPU cache performance in main memory environments, where the tree node sizes are one or a few cache lines. Unfortunately, due primarily to this large discrepancy in optimal node sizes, existing disk-optimized B$^+$-Trees suffer from poor cache performance while cache-optimized B$^+$-Trees exhibi ...

90 Consistency maintenance in real-time collaborative graphics editing systems

Chengzheng Sun, David Chen

March 2002 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: pdf(480.90 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Real-time collaborative graphics editing systems allow a group of users to view and edit the same graphics document at the same time from geographically dispersed sites

connected by communication networks. Consistency maintenance in the face of concurrent accesses to shared objects is one of the core issues in the design of these types of systems. In this article, we propose an object-level multiversioning approach to consistency maintenance in real-time collaborative graphic editors. This appro ...

Keywords: Collaborative graphics editors, GRACE, computer-supported cooperative work, consistence maintenance, convergence, groupware, intention preservation, multiversioning

91 Session A: Computer graphics: Implementation and applications of the distortion operator
Shaun Bangay
November 2001 **Proceedings of the 1st international conference on Computer graphics, virtual reality and visualisation AFRIGRAPH '01**
Publisher: ACM Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

The distortion operator transforms 2D images in a manner similar to image warping or morphing, allowing source pixels to be mapped to any destination pixel. This operator can be implemented on current hardware, allowing at least one distortion per frame at interactive frame rates. Potential applications are numerous, but those described include re-mapping images for correct projection onto curved screens, correcting camera distortion from multiple sources simultaneously, and allowing constant ti ...

Keywords: MMX, image warping, lighting, projection, texturing

92 IP Design and Reuse: Synthesis of pipelined memory access controllers for streamed data applications on FPGA-based computing engines
Joonseok Park, Pedro C. Diniz
September 2001 **Proceedings of the 14th international symposium on Systems synthesis ISSS '01**
Publisher: ACM Press
Full text available: pdf(193.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

Commercially available behavioral synthesis tools do not adequately support FPGA vendor-specific external memory interfaces making it extremely difficult to exploit pipelined memory access modes as well as application specific memory operations scheduling critical for high-performance solutions. This lack of support substantially increases the complexity and the burden on designers in the mapping of applications to FPGA-based computing engines. In this paper we address the problem of external me ...

Keywords: FPGA-based configurable computing, hardware interfaces and customizable memory controllers, scheduling of memory accesses

93 Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: pdf(613.63 KB)
              html(2.78 KB)   Additional Information: full citation, references, citings, index terms

94

An architecture to support scalable online personalization on the Web

Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(167.25 KB)   Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

95 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(1.95 MB)   Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

96 Source-level global optimizations for fine-grain distributed shared memory systems

R. Veldema, R. F. H. Hofman, R. A. F. Bhoedjang, C. J. H. Jacobs, H. E. Bal

June 2001 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming PPoPP '01**, Volume 36 Issue 7

Publisher: ACM Press

Full text available: 📄 pdf(112.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes and evaluates the use of aggressive static analysis in Jackal, a fine-grain Distributed Shared Memory (DSM) system for Java. Jackal uses an optimizing, source-level compiler rather than the binary rewriting techniques employed by most other fine-grain DSM systems. Source-level analysis makes existing access-check optimizations (e.g., access-check batching) more effective and enables two novel fine-grain DSM optimizations: object-graph aggregatio ...

97 Runtime optimizations for a Java DSM implementation

R. Veldema, R. F. H. Hofman, R. A. F. Bhoedjang, H. E. Bal

June 2001 **Proceedings of the 2001 joint ACM-ISCOPE conference on Java Grande JGI '01**

Publisher: ACM Press

Full text available: pdf(740.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Jackal is a fine-grained distributed shared memory implementation of the Java programming language. Jackal implements Java's memory model and allows multithreaded Java programs to run unmodified on distributed-memory systems.

This paper focuses on Jackal's runtime system, which implements a multiple-writer, home-based consistency protocol. Protocol actions are triggered by software access checks that Jackal's compiler inserts before object and array references. We describe optimizatio ...

98 <u>A conceptual framework for network and client adaptation</u>
B. Badrinath, Armando Fox, Leonard Kleinrock, Gerald Popek, Peter Reiher, M. Satyanarayanan
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(218.24 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Modern networks are extremely complex, varying both statically and dynamically. This complexity and dynamism are greatly increased when the network contains mobile elements. A number of researchers have proposed solutions to these problems based on dynamic adaptation to changing network conditions and application requirements. This paper summarizes the results of several such projects and extracts several important general lessons learned about adapting data flows over difficult network condi ...

99 <u>Implementing an on-the-fly garbage collector for Java</u>
Tamar Domani, Elliot K. Kolodner, Ethan Lewis, Eliot E. Salant, Katherine Barabash, Itai Lahan, Yossi Levanoni, Erez Petrank, Igor Yanorer
October 2000 **ACM SIGPLAN Notices , Proceedings of the 2nd international symposium on Memory management ISMM '00**, Volume 36 Issue 1
Publisher: ACM Press

Full text available: pdf(1.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Java uses garbage collection (GC) for the automatic reclamation of computer memory no longer required by a running application. GC implementations for Java Virtual Machines (JVM) are typically designed for single processor machines, and do not necessarily perform well for a server program with many threads running on a multiprocessor. We designed and implemented an on-the-fly GC, based on the algorithm of Doligez, Leroy and Gonthier [13, 12] (DLG), for Java in this environment. An *on-the-f ...*

Keywords: *Java, concurrent garbage collection, garbage collection, memory management, on-the-fly garbage collection, programming languages*

100 <u>A generational mostly-concurrent garbage collector</u>
Tony Printezis, David Detlefs
October 2000 **ACM SIGPLAN Notices , Proceedings of the 2nd international symposium on Memory management ISMM '00**, Volume 36 Issue 1
Publisher: ACM Press

Full text available: pdf(1.67 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This paper reports our experiences with a mostly-concurrent incremental garbage collector, implemented in the context of a high performance virtual machine for the Java™ programming language. The garbage collector is based on the "mostly parallel" collection algorithm of Boehm *et al.* and can be used as the old generation of a

generational memory system. It overloads efficient write-barrier code already generated to support generational garbage collection to also ident ...

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101 High performance data mining (tutorial PM-3)
Vipin Kumar, Mohammed Zaki
August 2000 **Tutorial notes of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '00**
Publisher: ACM Press
Full text available: 🗎 pdf(8.06 MB)   Additional Information: full citation, references, index terms

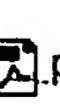**102** Improvement of a configuration management system
Frank Titze
June 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00**
Publisher: ACM Press
Full text available: 🗎 pdf(624.01 KB)   Additional Information: full citation, abstract, references, index terms

The company CAD-UL AG develops software tools for embedded systems. Single tools as compilers, linkers and debuggers are offered as well as complete development tool chains for the software development process. In contrast to application software for personal computers, embedded systems require very specialized software of highly optimized and exhaustively tested code.Since the previously existing configuration management was not efficient in comparison to the state-of-the-art in ...

Keywords: CVS, ODBC, Perl, Perl/TK, RCS, call and defect database, client-server, configuration management, customer, customer Web-access to defect-DB, multiple hosts operating systems, multiple target systems

103 Designing and mining multi-terabyte astronomy archives: the Sloan Digital Sky Survey
Alexander S. Szalay, Peter Z. Kunszt, Ani Thakar, Jim Gray, Don Slutz, Robert J. Brunner
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: 🗎 pdf(429.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

The next-generation astronomy digital archives will cover most of the sky at fine resolution in many wavelengths, from X-rays, through ultraviolet, optical, and infrared.

The archives will be stored at diverse geographical locations. One of the first of these projects, the Sloan Digital Sky Survey (SDSS) is creating a 5-wavelength catalog over 10,000 square degrees of the sky (see http://www.sdss.org/). The 200 million objects in the multi-terabyte database will have mostly numerical attribut ...

Keywords: Internet, archive, astronomy, data analysis, data mining, database, scalable

104 A high-level abstraction of shared accesses

Peter J. Keleher

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1

Publisher: ACM Press

Full text available: pdf(183.57 KB)   Additional Information: full citation, abstract, references, index terms, review

We describe the design and use of the tape mechanism, a new high-level abstraction of accesses to shared data for software DSMs. Tapes consolidate and generalize a number of recent protocol optimizations, including update-based locks and recorded-replay barriers. Tapes are usually created by "recording" shared accesses. The resulting recordings can be used to anticipate future accesses by tailoring data movement to application semantics. Tapes-based mechanisms a ...

Keywords: DSM, programming libraries, shared memory, update protocols

105 A distributed algorithm for graphic objects replication in real-time group editors

David Chen, Chengzheng Sun

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work GROUP '99**

Publisher: ACM Press

Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

Real-time collaborative editing systems are groupware systems that allow multiple users to edit the same document at the same time from multiple sites. A specific type of collaborative editing system is the object-based collaborative graphics editing system. One of the major challenge in building such systems is to solve the concurrency control problems. This paper addresses the concurrency control problem of how to preserve the intentions of concurrently generated operations whose ...

Keywords: collaborative editing, concurrency control, consistency maintenance, distributed computing, graphics editing

106 A distributed graphics system for large tiled displays

Greg Humphreys, Pat Hanrahan

October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years VIS '99**

Publisher: IEEE Computer Society Press

Full text available: pdf(2.14 MB)   Additional Information: full citation, abstract, references, citings, index terms

Recent interest in large displays has led to renewed development of tiled displays, which are comprised of several individual displays arranged in an array and used as one large logical display. Stanford's "Interactive Mural" is an example of such a display, using an overlapping four by two array of projectors that back-project onto a diffuse screen to form a 6' by 2' display area with a resolution of over 60 dpi. Writing software to make effective

use of the large display space ...

107 Techniques to increase disk access locality in the Minorca multimedia file system

Chuanbao Wang, Vera Goebel, Thomas Plagemann

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2) MULTIMEDIA '99**

Publisher: ACM Press

Full text available: pdf(483.67 KB)   Additional Information: full citation, references, citings, index terms

Keywords: access locality, continuous media, disk layout, disk seek, read ahead

108 Providing reliable and fault tolerant broadcast delivery in mobile ad-hoc networks

Elena Pagani

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(423.51 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile ad-hoc networks are making a new class of mobile applications feasible. They benefit from the fast deployment and reconfiguration of the networks, are mainly characterized by the need to support many-to-many interaction schema within groups of cooperating mobile hosts and are likely to use replication of data objects to achieve performances and high data availability. This strong group orientation requires specialized solutions that combine adaptation to the fully mobile environment ...

109 Garbage collection for a client-server persistent object store

Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

August 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(267.18 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We describe an efficient server-based algorithm for garbage collecting persistent object stores in a client-server environmnet. The algorithm is incremental and runs concurrently with client transactions. Unlike previous algorithms, it does not hold any transactional locks on data and does non require callbacks to clients. It is fault-tolerant, but performs very little logging. The algorithm has been designed to be integrated into existing systems, and therefore it works with standard i ...

Keywords: client-server system, logging, persistent object-store, recovery

110 Query optimization for selections using bitmaps

Ming-Chuan Wu

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.54 MB)   Additional Information: full citation, abstract, references, citings, index terms

Bitmaps are popular indexes for data warehouse (DW) applications and most database management systems offer them today. This paper proposes query optimization strategies for selections using bitmaps. Both continuous and discrete selection criteria are considered. Query optimization strategies are categorized into static and dynamic. Static

optimization strategies discussed are the optimal design of bitmaps, and algorithms based on tree and logical reduction ...

111 Flexible collaboration transparency: supporting worker independence in replicated application-sharing systems
James Begole, Mary Beth Rosson, Clifford A. Shaffer
June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2
Publisher: ACM Press

Full text available: pdf(312.22 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration transparency systems are inefficient in their use of network resources and lack support for key groupware principles: concurrent work, relaxed WYSIWIS, and group awareness. Next, we present an alternative approach to implementing collaborat ...

Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

112 Adding breadth to CS1 and CS2 courses through visual and interactive programming projects
Ricardo Jiménez-Peris, Sami Khuri, Marta Patiño-Martínez
March 1999 **ACM SIGCSE Bulletin , The proceedings of the thirtieth SIGCSE technical symposium on Computer science education SIGCSE '99**, Volume 31 Issue 1
Publisher: ACM Press

Full text available: pdf(617.03 KB)   Additional Information: full citation, abstract, references, citings, index terms

The aim of programming projects in CS1/CS2 is to put in practice concepts and techniques learnt during lectures. Programming projects serve a dual purpose: first, the students get to practice the programming concepts taught in class, and second, they are introduced to an array of topics that they will cover later in their computer science education.In this work, we present programming projects we have successfully used in CS1/CS2. These topics have added breadth to CS1/CS2 as well as whetted our ...

113 Java resources for computer science instruction
Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta
December 1998 **ACM SIGCSE Bulletin**, Volume 30 Issue 4
Publisher: ACM Press

Full text available: pdf(2.29 MB)   Additional Information: full citation, abstract, citings, index terms

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

114 Criteria for simulation software evaluation
Jalal Nikoukaran, Vlatka Hlupic, Ray J. Paul
December 1998 **Proceedings of the 30th conference on Winter simulation WSC '98**

Publisher: IEEE Computer Society Press

Full text available: pdf(75.22 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

115 <u>Java resources for computer science instruction</u>

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education ITiCSE-WGR '98**

Publisher: ACM Press

Full text available: pdf(107.98 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

116 <u>A methodological framework for data warehouse design</u>

Matteo Golfarelli, Stefano Rizzi

November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP DOLAP '98**

Publisher: ACM Press

Full text available: pdf(861.74 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

117 <u>Java resources for computer science instruction</u>

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(2.23 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

118 <u>Garbage collection in generic libraries</u>

Gor V. Nishanov, Sibylle Schupp

October 1998 **ACM SIGPLAN Notices , Proceedings of the 1st international symposium on Memory management ISMM '98**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper demonstrates a unified and garbage-collector independent way to describe the information required for precise collection. Thereby it is possible to construct, a library that can be used with various garbage collectors, without modifying the code of the library or the collector itself. The library design presented applies the adaptor idiom of generic programming which guarantees no overhead incurred if the library is used with manual allocators or with garbage collectors that do not re ...

119 <u>Very concurrent mark-&-sweep garbage collection without fine-grain synchronization</u>

Lorenz Huelsbergen, Phil Winterbottom

October 1998 **ACM SIGPLAN Notices , Proceedings of the 1st international symposium on Memory management ISMM '98**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, citings, index terms

We describe a new incremental algorithm for the concurrent reclamation of a program's allocated, yet unreachable, data. Our algorithm is a variant of mark-&-sweep collection that---unlike prior designs---runs mutator, marker, and sweeper threads concurrently *without* explicit fine-grain synchronization on shared-memory multiprocessors. A global, but infrequent, synchronization coordinates the per-object coloring marks used by the three threads; fine-grain synchronization is achieve ...

120 The IBM data warehouse architecture

Charles Bontempo, George Zagelow
September 1998 **Communications of the ACM**, Volume 41 Issue 9

Publisher: ACM Press

Full text available: pdf(817.29 KB)

Additional Information: full citation, references, citings, index terms, review

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41 A High Throughput String Matching Architecture for Intrusion Detection and Prevention   ▬

Lin Tan, Timothy Sherwood
May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd annual international symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2
Publisher: IEEE Computer Society, ACM Press
Full text available: 📄 pdf(205.60 KB)   Additional Information: full citation, abstract, cited by, index terms

> Network Intrusion Detection and Prevention Systems have emerged as one of the most effective ways of providing security to those connected to the network, and at the heart of almost every modern intrusion detection system is a string matching algorithm. String matching is one of the most critical elements because it allows for the system to make decisions based not just on the headers, but the actual content flowing through the network. Unfortunately, checking every byte of every packet to see i ...

42 Advanced SQL modeling in RDBMS   ▬

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Nathan Folkert, Abhinav Gupta, John Haydu, Lei Sheng, Sankar Subramanian
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(279.06 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

> Commercial relational database systems lack support for complex business modeling. ANSI SQL cannot treat relations as multidimensional arrays and define multiple, interrelated formulas over them, operations which are needed for business modeling. Relational OLAP (ROLAP) applications have to perform such tasks using joins, SQL Window Functions, complex CASE expressions, and the GROUP BY operator simulating the pivot operation. The designated place in SQL for calculations is the SELECT clause, whi ...

> **Keywords**: Excel, OLAP, analytic computations, spreadsheet

43 Multiversion-based view maintenance over distributed data sources   ▬

Songting Chen, Bin Liu, Elke A. Rundensteiner
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(480.72 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

Materialized views can be maintained by submitting maintenance queries to the data sources. However, the query results may be erroneous due to concurrent source updates. State-of-the-art maintenance strategies typically apply compensations to resolve such conflicts and assume all source schemata remain stable over time. In a loosely coupled dynamic environment, the sources may autonomously change not only their data but also their schema or semantics. Consequently, either the maintenance or the ...

Keywords: View maintenance, transaction processing

44 Performance Evaluation of Task Pools Based on Hardware Synchronization

Ralf Hoffmann, Matthias Korch, Thomas Rauber
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing SC '04**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(208.41 KB)   Additional Information: full citation, abstract

A task-based execution provides a universal approach to dynamic load balancing for irregular applications. Tasks are arbitrary units of work that are created dynamically at run-time and that are stored in a parallel data structure, the task pool, until they are scheduled onto a processor for execution. In this paper, we evaluate the performance of different task pool implementations for shared-memory computer systems using several realistic applications. We consider task pools with different dat ...

45 Services: ELF: an efficient log-structured flash file system for micro sensor nodes

Hui Dai, Michael Neufeld, Richard Han
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems SenSys '04**
Publisher: ACM Press
Full text available: 📄 pdf(291.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

An efficient and reliable file storage system is important to micro sensor nodes so that data can be logged for later asynchronous delivery across a multi-hop wireless sensor network. Designing and implementing such a file system for a sensor node faces various challenges. Sensor nodes are highly resource constrained in terms of limited runtime memory, limited persistent storage, and finite energy. Also, the flash storage medium on sensor nodes differs in a variety of ways from the traditiona ...

Keywords: eeprom, file system, flash, log structured, reliability, sensor

46 Flow analysis for verifying properties of concurrent software systems

Matthew B. Dwyer, Lori A. Clarke, Jamieson M. Cobleigh, Gleb Naumovich
October 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 13 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.13 MB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

This article describes FLAVERS, a finite-state verification approach that analyzes whether concurrent systems satisfy user-defined, behavioral properties. FLAVERS automatically creates a compact, event-based model of the system that supports efficient dataflow analysis. FLAVERS achieves this efficiency at the cost of precision. Analysts, however, can improve the precision of analysis results by selectively and judiciously incorporating

additional semantic information into an analysis.We report o ...

Keywords: Dataflow analysis, finite-state verification, model checking

47 Fast Paths in Concurrent Programs

Wen Xu, Sanjeev Kumar, Kai Li

September 2004 **Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques PACT '04**

Publisher: IEEE Computer Society

Full text available: pdf(322.08 KB)   Additional Information: full citation, abstract

Compiling concurrent programs to run on a sequential processor presents a difficult tradeoff between execution time and size of generated code. On one hand, the process-based approach to compilation generates reasonable sized code but incurs significant execution overhead due to concurrency. On the other hand, the automata-based approach incurs a much smaller execution overhead but can result in code that is several orders of magnitude larger. This paper proposes a way of combining the two appro ...

48 Research sessions: indexing and tuning: Integrating vertical and horizontal partitioning into automated physical database design

Sanjay Agrawal, Vivek Narasayya, Beverly Yang

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(181.69 KB)   Additional Information: full citation, abstract, references, citings

In addition to indexes and materialized views, horizontal and vertical partitioning are important aspects of physical design in a relational database system that significantly impact performance. Horizontal partitioning also provides manageability; database administrators often require indexes and their underlying tables partitioned identically so as to make common operations such as backup/restore easier. While partitioning is important, incorporating partitioning makes the problem of automatin ...

49 New technologies in system design: Automatic generation of equivalent architecture model from functional specification

Samar·Abdi, Daniel Gajski

June 2004 **Proceedings of the 41st annual conference on Design automation DAC '04**

Publisher: ACM Press

Full text available: pdf(226.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an algorithm for automatic generation of an architecture model from a functional specification, and proves its correctness. The architecture model is generated by distributing the intended system functionality over various components in the platform architecture. We then define simple transformations that preserve the execution semantics of system level models. Finally, the model generation algorithm is proved correct using our transformations. As a result, we have an automat ...

Keywords: formal verification, model refinement, system level design

50 Networks: Improving the execution time of global communication operations

Matthias Kühnemann, Thomas Rauber, Gudula Rünger

April 2004 **Proceedings of the 1st conference on Computing frontiers CF '04**

Publisher: ACM Press

Full text available: 📄 pdf(324.37 KB)   Additional Information: full citation, abstract, references, index terms

Many parallel applications from scientific computing use MPI global communication operations to collect or distribute data. Since the execution times of these communication operations increase with the number of participating processors, scalability problems might occur. In this article, we show for different MPI implementations how the execution time of global communication operations can be significantly improved by a restructuring based on orthogonal processor structures. As platform, we cons ...

Keywords: MPI, global communication operations, orthogonal processor groups, parallel programs

51 Parallel program performance prediction using deterministic task graph analysis ▬
Vikram S. Adve, Mary K. Vernon
February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(576.29 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this article, we consider analytical techniques for predicting detailed performance characteristics of a single shared memory parallel program for a particular input. Analytical models for parallel programs have been successful at providing simple qualitative insights and bounds on program scalability, but have been less successful in practice for providing detailed insights and metrics for program performance (leaving these to measurement or simulation). We develop a conceptually simple mode ...

Keywords: Analytical model, deterministic model, parallel program performance prediction, queueing network, shared memory, task graph, task scheduling

52 Parallel multisource view maintenance ▬
Xin Zhang, Lingli Ding, Elke A. Rundensteiner
January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(382.15 KB)   Additional Information: full citation, abstract, citings, index terms

In a distributed environment, materialized views are used to integrate data from different information sources and then store them in some centralized location. In order to maintain such materialized views, maintenance queries need to be sent to information sources by the data warehouse management system. Due to the independence of the information sources and the data warehouse, concurrency issues are raised between the maintenance queries and the local update transactions at each information so ...

Keywords: Concurrent data updates, Data warehousing, Parallel view maintenance, Performance evaluation

53 An on-the-fly mark and sweep garbage collector based on sliding views ▬
Hezi Azatchi, Yossi Levanoni, Harel Paz, Erez Petrank
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications OOPSLA '03**, Volume 38 Issue 11
Publisher: ACM Press

Full text available: 📄 pdf(244.12 KB)   Additional Information: full citation, abstract, references, citings, index terms

With concurrent and garbage collected languages like Java and C# becoming popular, the need for a suitable non-intrusive, efficient, and concurrent multiprocessor garbage collector has become acute. We propose a novel mark and sweep on-the-fly algorithm based on the sliding views mechanism of Levanoni and Petrank. We have implemented our collector on the Jikes Java Virtual Machine running on a Netfinity multiprocessor and compared it to the concurrent algorithm and to the stop-the-world collecto ...

Keywords: concurrent garbage collection, garbage collection, memory management, on-the-fly garbage collection, runtime systems

54 Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5
Publisher: ACM Press

Full text available: ![pdf] pdf(168.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

55 Tutorial: Compiling concurrent languages for sequential processors

Stephen A. Edwards
April 2003 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 8 Issue 2
Publisher: ACM Press

Full text available: ![pdf] pdf(771.65 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Embedded systems often include a traditional processor capable of executing sequential code, but both control and data-dominated tasks are often more naturally expressed using one of the many domain-specific concurrent specification languages. This article surveys a variety of techniques for translating these concurrent specifications into sequential code. The techniques address compiling a wide variety of languages, ranging from dataflow to Petri nets. Each uses a different method, to some degr ...

Keywords: Compilation, Esterel, Lustre, Petri nets, Verilog, code generation, communication, concurrency, dataflow, discrete-event, partial evaluation, sequential

56 Pointer analysis for structured parallel programs

Radu Rugina, Martin C. Rinard
January 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 1
Publisher: ACM Press

Full text available: ![pdf] pdf(383.29 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer

analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel constructs, including fork-join constructs, parallel loops, and conditionally spawned threads. For each pointer and each program point, the algorithm computes a conservative approximation of the memory locations to which that pointer may point. Th ...

Keywords: Pointer analysis

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57 Migration: Optimizing the migration of virtual computers

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press

Full text available: pdf(1.68 MB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes.We have chosen to move *x*86 computer states because *x*86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, *x*86 c ...

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58 Reducing pause time of conservative collectors

Toshio Endo, Kenjiro Taura
June 2002 **ACM SIGPLAN Notices , Proceedings of the 3rd international symposium on Memory management ISMM '02**, Volume 38 Issue 2 supplement
Publisher: ACM Press

Full text available: pdf(182.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an incremental conservative garbage collector that significantly reduces pause time of an existing collector by Boehm et al. Like their collector, it is a true conservative collector that does not require compiler cooperation but uses virtual memory primitives (page protection) of operating systems for write barriers. While much successful work has been done on incremental collectors in general, achieving small pause time of the order of a few milliseconds in such uncooperat ...

Keywords: concurrent garbage collection, conservative garbage collection, memory management, parallel garbage collection

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59 A parallel, incremental and concurrent GC for servers

Yoav Ossia, Ori Ben-Yitzhak, Irit Goft, Elliot K. Kolodner, Victor Leikehman, Avi Owshanko
May 2002 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation PLDI '02**, Volume 37 Issue 5
Publisher: ACM Press

Full text available: pdf(231.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

Multithreaded applications with multi-gigabyte heaps running on modern servers provide new challenges for garbage collection (GC). The challenges for "server-oriented" GC include: ensuring short pause times on a multi-gigabyte heap, while minimizing throughput penalty, good scaling on multiprocessor hardware, and keeping the number of expensive multi-cycle fence instructions required by weak ordering to a minimum. We designed and implemented a fully parallel, incremental, mostly concurrent colle ...

Keywords: JVM, Java, concurrent garbage collection, garbage collection, incremental garbage collection, weak ordering

60 MPI-IO/GPFS, an optimized implementation of MPI-IO on top of GPFS

Jean-Pierre Prost, Richard Treumann, Richard Hedges, Bin Jia, Alice Koniges

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '01**

Publisher: ACM Press

Full text available: pdf(168.17 KB)

Additional Information: full citation, abstract, references, citings, index terms

MPI-IO/GPFS is an optimized prototype implementation of the I/O chapter of the Message Passing Interface (MPI) 2 standard. It uses the IBM General Parallel File System (GPFS) Release 3 as the underlying file system. This paper describes optimization features of the prototype that take advantage of new GPFS programming interfaces. It also details how collective data access operations have been optimized by minimizing the number of messages exchanged in sparse accesses and by increasing the overla ....

Keywords: GPFS, MPI-IO, SMP node, benchmark, data shipping, double buffering, file hints, optimization, performance, prefetching

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1 Formal semantics and static analysis: Compiler optimizations for nondeferred reference: counting garbage collection   ■
Pramod G. Joisha
June 2006 **Proceedings of the 5th international symposium on Memory management ISMM '06**
Publisher: ACM
Full text available: 📄 pdf(220.00 KB)   Additional Information: full citation, abstract, references, index terms

Reference counting is a well-known technique for automatic memory management, offering unique advantages over other forms of garbage collection. However, on account of the high costs associated with the maintenance of up-to-date tallies of references from the stack, deferred variants are typically used in modern implementations. This partially sacrifices some of the benefits of non-deferred reference-counting (RC) garbage collection, like the immediate reclamation of garbage and short collector ...

Keywords: reference counting, static analyses

2 The structure of Cedar   ■
Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann
June 1985 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 , 18 Issue 7 , 6
Publisher: ACM Press
Full text available: 📄 pdf(1.79 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

3 Garbage collection in generic libraries   ■
Gor V. Nishanov, Sibylle Schupp
October 1998 **ACM SIGPLAN Notices , Proceedings of the 1st international symposium on Memory management ISMM '98**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper demonstrates a unified and garbage-collector independent way to describe the information required for precise collection. Thereby it is possible to construct, a library that can be used with various garbage collectors, without modifying the code of the library or the collector itself. The library design presented applies the adaptor idiom of generic programming which guarantees no overhead incurred if the library is used with manual allocators or with garbage collectors that do not re ...

4 <u>Flow analysis for verifying properties of concurrent software systems</u>

Matthew B. Dwyer, Lori A. Clarke, Jamieson M. Cobleigh, Gleb Naumovich
October 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(1.13 MB)   Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

This article describes FLAVERS, a finite-state verification approach that analyzes whether concurrent systems satisfy user-defined, behavioral properties. FLAVERS automatically creates a compact, event-based model of the system that supports efficient dataflow analysis. FLAVERS achieves this efficiency at the cost of precision. Analysts, however, can improve the precision of analysis results by selectively and judiciously incorporating additional semantic information into an analysis.We report o ...

Keywords: Dataflow analysis, finite-state verification, model checking

5 <u>Coordination languages and their significance</u>

David Gelernter, Nicholas Carriero
February 1992 **Communications of the ACM**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: pdf(8.24 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

6 <u>Bulk file I/O extensions to Java</u>

Dan Bonachea
June 2000 **Proceedings of the ACM 2000 conference on Java Grande JAVA '00**

Publisher: ACM Press

Full text available: pdf(1.11 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: I/O, Java, asynchronous, bulk

7 <u>Speculative execution in a distributed file system</u>

Edmund B. Nightingale, Peter M. Chen, Jason Flinn
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5

Publisher: ACM Press

Full text available: pdf(305.54 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Speculator provides Linux kernel support for speculative execution. It allows multiple processes to share speculative state by tracking causal dependencies propagated through inter-process communication. It guarantees correct execution by preventing speculative

processes from externalizing output, e.g., sending a network message or writing to the screen, until the speculations on which that output depends have proven to be correct. Speculator improves the performance of distributed file systems ...

Keywords: causality, distributed file systems, speculative execution

8 On the use of VHDL-based behavioral synthesis for telecom ASIC design

Mark Genoe, Paul Vanoostende, Geert van Wauwe
September 1995 **Proceedings of the 8th international symposium on System synthesis ISSS '95**

Publisher: ACM Press

Full text available: pdf(48.25 KB)
Publisher Site

Additional Information: full citation, abstract, references, citings, index terms

Abstract: VHDL-based behavioral synthesis is appearing on the market but it still has to prove that it can have a significant impact. In the past, most applications for behavioral synthesis came from the DSP area and from the academic world. In contrast, this paper describes the results of an investigation and evaluation of several behavioral synthesis tools, carried out on recent designs of Alcatel-Bell, leading to a more detailed study of relevant industrial telecom non-DSP circuits, that were ...

Keywords: Alcatel-Bell, RTL-synthesizable description, VHDL, application specific integrated circuits, behavioral synthesis, behavioral synthesis tools, design complexities, hardware CAD tool, hardware description languages, hardware software codesign, high level synthesis, integrated circuit design, integrated logic circuits, logic synthesis, system level design methodology, telecom ASIC design, telecom system hardware design, telecommunication computing

9 The IBM data warehouse architecture

Charles Bontempo, George Zagelow
September 1998 **Communications of the ACM**, Volume 41 Issue 9

Publisher: ACM Press

Full text available: pdf(817.29 KB)

Additional Information: full citation, references, citings, index terms, review

10 Register relocation: flexible contexts for multithreading

Carl A. Waldspurger, William E. Weihl
May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture ISCA '93**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references, citings, index terms

Multithreading is an important technique that improves processor utilization by allowing computation to be overlapped with the long latency operations that commonly occur in multiprocessor systems. This paper presents register relocation, a new mechanism that efficiently supports flexible partitioning of the register file into variable-size contexts with minimal hardware support. Since the number of registers required by thread contexts varies, this flexibility permits a better utilization ...

11 Groupware infrastructure: Transparent sharing and interoperation of heterogeneous single-user applications

Du Li, Rui Li
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work CSCW '02**

Publisher: ACM Press

Full text available: ▦ pdf(376.29 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Multi-user applications generally lag behind in features or compatibility with single-user applications. As a result, users are often not motivated to abandon their favorite single-user applications for groupware features that are less frequently used. A well-accepted approach, *collaboration transparency*, is able to convert off-the-shelf single-user applications into groupware without modifying the source code. However, existing systems have been largely striving to develop generic applic ...

Keywords: application sharing, collaboration transparency, group editing, heterogeneity, interoperation

12 Automatic generation of DAG parallelism

R. Cytron, M. Hind, W. Hsieh
June 1989 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1989 Conference on Programming language design and implementation PLDI '89**, Volume 24 Issue 7

Publisher: ACM Press

Full text available: ▦ pdf(1.58 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

13 The S/Net's Linda kernel

Nicholas Carriero, David Gelernter
May 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: ▦ pdf(1.55 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Linda is a parallel programming language that differs from other parallel languages in its simplicity and in its support for distributed data structures. The S/Net is a multicomputer, designed and built at AT&T Bell Laboratories, that is based on a fast, word-parallel bus interconnect. We describe the Linda-supporting communication kernel we have implemented on the S/Net. The implementation suggests that Linda's unusual shared-memory-like communication primitives can be made to run well in ...

14 Communication optimizations for parallel computing using data access information

Martin C. Rinard
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**

Publisher: ACM Press

Full text available: ▦ html(87.34 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Given the large communication overheads characteristic of modern parallel machines, optimizations that eliminate, hide or parallelize communication may improve the performance of parallel computations. This paper describes our experience automatically applying communication optimizations in the context of Jade, a portable, implicitly parallel programming language designed for exploiting task-level concurrency. Jade programmers start with a program written in a standard serial, imperative languag ...

15 Coordination models, languages and applications: An enablement detection

algorithm for open multiparty interactions

J. A. Pérez, R. Corchuelo, D. Ruiz, M. Toro

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: pdf(605.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

Coordination amongst an arbitrary number of entities has become an important issue in recent years in fields such as e-commerce, web-based applications and so on. Traditionally, classical client/server primitives have been used to implement synchronisation and communication. But, when more than two entities need to coordinate by means of those primitives, the coordination must be decomposed into a number of client/server biparty interactions, leading the programmer to the need of thinking in ter ...

Keywords: coordination algorithms, multiparty interactions

16 The Mesa programming environment

Richard E. Sweet

June 1983 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 18 , 20 Issue 6 , 7

Publisher: ACM Press

Full text available: pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

People everywhere are developing multi-window, integrated programming environments for their favorite computers and languages. This paper describes the Mesa programming facilities of the Xerox Development Environment (XDE). It is interesting for several reasons. It has existed in something similar to its current form for about 5 years. It has more than 500 users, many interacting with it 8 or more hours a day. Several million lines of code have been written by these users, including large, ...

17 Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.20 MB)   Additional Information: full citation, references, citings, index terms

18 Use of a Nonprocedural Specification Language and Associated Program Generator in Software Development

N. S. Prywes, Amir and S. Shastry

October 1979 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(1.29 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Model II language and the associated program generator are used to explain and illustrate the use of very high level nonprocedural languages for computer programming. The effect of a very high level language is obtained in Model II through the elimination of procedural and control facilities that exist in high level programming languages such as PL/I or Cobol. In particular, the statements may be given in any order and there are no

control constructs such as input/output, iterations, an ...

19 Search: Keyword search on relational data streams

Alexander Markowetz, Yin Yang, Dimitris Papadias

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: 📄 pdf(437.84 KB)   Additional Information: full citation, abstract, references, index terms

Increasing monitoring of transactions, environmental parameters, homeland security, RFID chips and interactions of online users rapidly establishes new data sources and application scenarios. In this paper, we propose keyword search on relational data streams (S-KWS) as an effective way for querying in such intricate and dynamic environments. Compared to conventional query methods, S-KWS has several benefits. First, it allows search for combinations of interesting terms without a-priori knowl ...

Keywords: data streams, keyword search

20 Reconciling performance and programmability in networking systems

Jayaram Mudigonda, Harrick M. Vin, Stephen W. Keckler

August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(380.93 KB)   Additional Information: full citation, abstract, references, index terms

Challenges in addressing the memory bottleneck have made it difficult to design a packet processing platform that simultaneously achieves both ease-of-programming and high performance. Today's commercial processors support two architectural mechanisms - namely, hardware multithreading and caching - to overcome the memory bottleneck. The configurations of these mechanisms (e.g., cache capacity, number of threads per processor core) are fixed at processor-design time. The relative effectiveness ...

Keywords: data cache, memoty bottleneck, multithreading, packet processing, processor architectures, reconfigurable architectures, routers

Results 1 - 20 of 200   Result page: **1**   2   3   4   5   6   7   8   9   10   next

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Your search for **+author:brian +author:muras** did not return any results.

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Quick Tips

- Enter your search terms in lower case with a space between the terms.

      sales offices

  You can also enter a full question or concept in plain language.

      Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

      John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

      "museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

      museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

      museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

      museum +"natural history" dinosaur -Chicago

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You may want to try an Advanced Search for additional options.

Please review the Quick Tips below or for more information see the Search Tips.

Quick Tips

- Enter your search terms in lower case with a space between the terms.

    ```
    sales offices
    ```

    You can also enter a full question or concept in plain language.

    ```
    Where are the sales offices?
    ```

- Capitalize proper nouns to search for specific people, places, or products.

    ```
    John Colter, Netscape Navigator
    ```

- Enclose a phrase in double quotes to search for that exact phrase.

    ```
    "museum of natural history" "museum of modern art"
    ```

- Narrow your searches by using a + if a search term must appear on a page.

    ```
    museum +art
    ```

- Exclude pages by using a - if a search term must not appear on a page.

    ```
    museum -Paris
    ```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

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Search query: query bitmap

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Displaying records #1 through 10 out of 47

Result # 1   Relevance: ⊙⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL - NETWORK DATABASES

1984-12-31   IPCOM000128335D   English

to Distributed Databases .... 1.2 Introduction to Query Pr
Purpose of the Thesis . , 1.4 Thesis Plan ....
.... page 2 Distributed ...

Result # 2   Relevance: ⊙⊙⊙⊙

DESCRIPTION OF AN EXPERIMENTAL ON-LINE MINICOMPUTER-BASEI INFORMATION RETRIEVAL SYSTEM

1976-02-29   IPCOM000151359D   English

Report No. UIUCDCS-R-76-779 DESCRIPTION OF AN EXPERIMEN'TAL ON-LINE, MINICC
BASED INFORMATION·RETRIEVAL SYSTEM by John Keith Morgan February 1976 Depart
Computer Sci enceIlni versr'ty of I1 l i noi s a t Urblana-Champai gn Urbana, Illinois 61:

Result # 3   Relevance: ⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL NETWORK DATABASES

1984-12-31   IPCOM000150899D   English

December 1983 Thomas Wingfield Page, Jr. Report No. CSD-840222 COMPUTER SCDEI
DEPARTMENT OFFICERS Dr. Algirdas ~viiienis, Chairperson Dr. Bertram Bussell, Vice C
Milos Ercegovac, Vice Chairperson Dr. Mario Gerla, Vice ChairpersonMrs. Arlene C. ...

Result # 4   Relevance: ⊙⊙

USER'S GUIDE TO EUREKA AND EURUP

1979-02-28   IPCOM000151439D   English

PART 1 EUREKA 1. Basic EUREKA features A s a package, EXJREKA is unique, although
features with other existing retrieval systems. The major points of its structure are: 1 I
2) The full text of each document is availsble. 3) The index ...

Result # 5   Relevance: ⊙⊙

Internet Storage Name Service (iSNS) (RFC4171)

2005-09-01   IPCOM000128857D   English

This document specifies the Internet Storage Name Service (iSNS) protocol, used for in
between iSNS servers and iSNS clients, which facilitates automated discovery, managel
configuration of iSCSI and Fibre Channel devices (using iFCP gateways) on a TCP/IP ...

Result # 6   Relevance: ⊙

Protocol Modifications for the DNS Security Extensions (RFC4035)

2005-03-01   IPCOM000111195D   English

This document is part of a family of documents that describe the DNS Security Extensic
The DNS Security Extensions are a collection of new resource records and protocol moc
add data origin authentication and data integrity to the DNS. This ...

Result # 7   Relevance: ⊙

Semaphore Architecture for Multi-threaded Multi-masking Operating !

1991-09-01   IPCOM000121703D   English

Described is a software facility for semaphore architecture to be used in multi-threaded masking operating systems. Discussed are seven semaphore interfaces that reflect app programmer implementation pertaining to 32-bit Operating System/2* (OS/2*) produc

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Result # 8   Relevance: ⟳

Partitioning of Function in a Distributed Graphics System

1985-03-31   IPCOM000150730D   English

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Result # 9   Relevance: ⟳

Personalized Cursor

1992-02-01   IPCOM000107332D   English

In a visual computer interface, a method is given for using the cursor as a means of sh which of a set of preferences is active.

Result # 10   Relevance: ⟳

Multidimensional Index Structure with Multi-Level Entry and Skip-Lev for Partially-Specified Queries

1996-11-01   IPCOM000118210D   English

Many database applications require enhanced indexing. Examples include multidimensi analysis in a decision support system and information retrieval on non-traditional data raster images and spatial objects, in a multimedia information system. In a ...

Displaying page 1 of 5   << FIRST | < BACK | NEXT > | LAST >>

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Result # 1   Relevance: ⊙⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL - NETWORK DATABASES

1984-12-31   IPCOM000128335D   English

to Distributed Databases .... 1.2 Introduction to Query Pr
Purpose of the Thesis . , 1.4 Thesis Plan ....
.... page 2 Distributed ...

Result # 2   Relevance: ⊙⊙⊙⊙

DESCRIPTION OF AN EXPERIMENTAL ON-LINE MINICOMPUTER-BASEI INFORMATION RETRIEVAL SYSTEM

1976-02-29   IPCOM000151359D   English

Report No. UIUCDCS-R-76-779 DESCRIPTION OF AN EXPERIMEN'TAL ON-LINE, MINICC
BASED INFORMATION RETRIEVAL SYSTEM by John Keith Morgan February 1976 Depart
Computer Sci enceIlni versr'ty of I1 l i noi s a t Urblana-Champai gn Urbana, Illinois 61:

Result # 3   Relevance: ⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL NETWORK DATABASES

1984-12-31   IPCOM000150899D   English

December 1983 Thomas Wingfield Page, Jr. Report No. CSD-840222 COMPUTER SCDEI
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Milos Ercegovac, Vice Chairperson Dr. Mario Gerla, Vice ChairpersonMrs. Arlene C. ...

Result # 4   Relevance: ⊙⊙

USER'S GUIDE TO EUREKA AND EURUP

1979-02-28   IPCOM000151439D   English

PART 1 EUREKA 1. Basic EUREKA features A s a package, EXJREKA is unique, although
features with other existing retrieval systems. The major points of its structure are: 1 I
2) The full text of each document is availsble. 3) The index ...

Result # 5   Relevance: ⊙

Partitioning of Function in a Distributed Graphics System

1985-03-31   IPCOM000150730D   English

N00039-83-K-0431 rTIQpi HAUL AND ADDRLSS Departments of Computer Science and
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re1 ease: distribution unl imi ted nT (of the eb4trmct anrerod In ...

Result # 6   Relevance: ⊙

Multimedia mail meeting notes (RFC0807)

1982-02-09   IPCOM000003856D   English

A meeting was held at USC Information Sciences Institute on the 12th of January 1982
multimedia mail issues and experiments. The list of attendees is at the end of this mem

Result # 7   Relevance: ⊙

Semaphore Architecture for Multi-threaded Multi-masking Operating !

1991-09-01   IPCOM000121703D   English

Described is a software facility for semaphore architecture to be used in multi-threaded masking operating systems. Discussed are seven semaphore interfaces that reflect app programmer implementation pertaining to 32-bit Operating System/2* (OS/2*) produc

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Result # 8   Relevance: ○

Personalized Cursor

1992-02-01   IPCOM000107332D   English

In a visual computer interface, a method is given for using the cursor as a means of sh which of a set of preferences is active.

Result # 9   Relevance: ○

AN AUTOMATIC, VIRTUAL, EXPERT FILING SYSTEM

1993-10-31   IPCOM000026821D   English

An automatic virtual expert filing system is disclosed which expands the Xerox Globalvi by providing a "literal" representation of information that extends beyond the metaphor representation. The disclosed filing system integrates and ...

Result # 10   Relevance: ○

UNK Cleaner - Lotus Notes Design Garbage Collector & Remover.

2000-02-01   IPCOM000014442D   English

UNK Cleaner Lotus Notes Design Garbage Collector Remover. Title: UNK Cleaner Lotus Garbage Collector Remover. Brief description:

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Result # 1   Relevance: ⊙⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL - NETWORK DATABASE

1984-12-31   IPCOM000128335D   English

to Distributed Databases .... 1.2 Introduction to Query Pr
Purpose of the Thesis . , 1.4 Thesis Plan ....
.... page 2 Distributed ...

Result # 2   Relevance: ⊙⊙⊙⊙

DISTRIBUTED QUERY PROCESSING IN LOCAL NETWORK DATABASES

1984-12-31   IPCOM000150899D   English

December 1983 Thomas Wingfield Page, Jr. Report No. CSD-840222 COMPUTER SCDEI
DEPARTMENT OFFICERS Dr. Algirdas ~viiienis, Chairperson Dr. Bertram Bussell, Vice C
Milos Ercegovac, Vice Chairperson Dr. Mario Gerla, Vice ChairpersonMrs. Arlene C. ...

Result # 3   Relevance: ⊙

Preemptable Remote Execution Facilities for the V-System

1985-09-30   IPCOM000150515D   English

Marvin M. TheimerKeith A. LantzDavid R. Cheriton 6. PERFORMING ORG. REPORT NUMI
85-1087 I. CONTRACT OR GRANT NUMBE R(r) MDA903-80-C-0102 N00039-83-K-0431
PERFORMING ORGANIZATION NAME AND AODRESS READ INST RUCTIONS
BEFORECOMPLETINGFORM ...

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Search query: bitmap and query and optimizer
Published Before: 9-11-2003 (Original publication date)

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databases　easy search

Advanced Search:

Inspec - 1898 to date (INZZ)

limit

Search history:

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8	INZZ	RELATIONAL-DATABASES.DE.	unrestricted	14450	show titles
9	INZZ	8 AND 7	unrestricted	2	show titles
10	INZZ	ibm	unrestricted	127105	show titles
11	INZZ	10 AND bitmap SAME optimizer	unrestricted	0	-
12	INZZ	international ADJ business ADJ machines	unrestricted	174	show titles
13	INZZ	12 AND query ADJ optimizer	unrestricted	0	-
14	INZZ	query ADJ optimizer	unrestricted	258	show titles
15	INZZ	14 AND bitmap	unrestricted	2	show titles
16	INZZ	(sql OR structured ADJ query ADJ language) AND (bitmap OR bit-map OR bitmap) AND concurrent$ ADJ parallel$ ADJ simultan$	unrestricted	0	-
17	INZZ	(sql OR structured ADJ query ADJ language) AND (bitmap OR bit-map OR bitmap) AND concurrent$ ADJ parallel$ ADJ simultan$	unrestricted	0	-
18	INZZ	(sql OR structured ADJ query ADJ language) AND (bitmap OR bit-map OR bitmap) AND (concurrent OR parallel OR simultanous)	unrestricted	1	show titles

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- Classification codes A: Physics, 4-5
- Classification codes A: Physics, 6
- Classification codes A: Physics, 7
- Classification codes A: Physics, 8
- Classification codes A: Physics, 9
- Classification codes B: Electrical & Electronics, 0-5
- Classification codes B: Electrical & Electronics, 6-9
- Classification codes C: Computer & Control
- Classification codes D: Information Technology
- Classification codes E: Mech., Manufac. & Production Engineering
- Treatment codes
- Inspec sub-file
- Language of publication
- Publication types

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Web   Results **1 - 10** of about **552,000** over the **past year** for <u>bitmap</u> <u>optimization</u> <u>query</u>. (**0.16** seconds)

Query Optimization
Bitmap Heap Scan on dbmail_messages m (cost=9.16..2871.63 rows=632 width=16)
(actual time=38.072..246.509 .... Re: **Query Optimization**. From: Tom Lane ...
archives.postgresql.org/pgsql-performance/2007-02/msg00191.php - 28k -
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Re: Query Optimization
Re: **Query Optimization** ... rows=373 loops=1) > Sort Key: m.physmessage_id > ->
Bitmap Heap Scan on ..... **Query Optimization**. From: Reinhard Vicinus ...
archives.postgresql.org/pgsql-performance/2007-02/msg00199.php - 27k -
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[PERFORM] Bitmap Index Scan optimization opportunity - Grokbase
1) Kevin Grittner These **query** times are the "fully cached" times for both, ... [PERFORM]
Bitmap Index Scan **optimization** opportunity (2 posts) ...
grokbase.com/.../2007/08/10/perform-**bitmap**-index-scan-**optimization**-
opportunity/ztAa2Z8hQ4D0ZJDoJEHTpliFd6k - 34k - <u>Cached</u> - <u>Similar pages</u>

[PERFORM] Bitmap Index Scan optimization opportunity Archive ...
These **query** times are the "fully cached" times for both, ... pgsql-performance >
[PERFORM] **Bitmap** Index Scan **optimization** opportunity (2 posts) > View Post ...
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[<u>More results from grokbase.com</u>]

B-tree key-range bit map index optimization of database queries ...
Although simple **bitmap optimization** techniques, such as the foregoing, ... At step 331, if
all entities of a **query** satisfy Full Mode **optimization** criteria ...
www.patentstorm.us/patents/5560007-description.html - 89k - <u>Cached</u> - <u>Similar pages</u>

Query processing using compressed bitmaps - US Patent 6141656
A method for performing logical operations on **bitmap** streams from segmented **bitmaps**. ...
Antonshenkov, G., "Dynamic **Query Optimization** in Rdb/VMS", ...
www.patentstorm.us/patents/6141656-claims.html - 34k - <u>Cached</u> - <u>Similar pages</u>
[<u>More results from www.patentstorm.us</u>]

Re: [sqlite] Optimize a query
Is there a performance penalty from structuring the **query** like that? ... But modulo the
bitmap optimization, SQLite gives > you all the capabilities of ...
www.mail-archive.com/sqlite-users@sqlite.org/msg24106.html - 9k -
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Re: [sqlite] Optimize a query
If you want to use both indices, rewrite the **query** this way: SELECT * FROM table1
WHERE ... But modulo the **bitmap optimization**, SQLite gives you all the ...
www.mail-archive.com/sqlite-users@sqlite.org/msg24102.html - 7k -
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Query Optimization - ITtoolbox Groups

query optimization variable ITtoolbox Groups. ... 4) Consider switching to **bitmap** indexes
instead of regular b-tree indexes (this will depend on your data ...
siebel.ittoolbox.com/groups/technical-functional/siebel-analytics-l/**query-optimization-**
1594998 - 69k - Cached - Similar pages

.Oracle Concepts - List of Oracle Event Codes
CBO **Bitmap optimization** use maximal expression .... Parallel **query** server interrupt
(validate lock value) ... Enable timeouts in parallel **query** threads ...
www.dba-oracle.com/concepts/event_codes.htm - 239k - Cached - Similar pages

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Tomorrow: **Paul Reuben's Day** « Vinaigrette
Paul Reubens' Day is on Saturday, July 28th, 2007 starting at 12pm. The route is free, but bring money for drinks/snacks/strippers. Playhouse ...
wendyvinaigrette.wordpress.com/2007/07/27/tomorrow-**paul**-**reuben**s-**day**/ - 18k -
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San Francisco Party Party » Blog Archive » Sat - **Paul Reubens Day** ...
In the world of **Paul Reubens**, it's all good.... except when it's great. Find out more on **Paul Reubens Day** website. Image source: paulreubensday.com ...
www.sfpartyparty.com/?p=1456 - 34k - <u>Cached</u> - <u>Similar pages</u>

4th Annual **Paul Reubens' Day** Saturday - A+E Interactive: Your Bay ...
4th Annual **Paul Reubens' Day** Saturday. By AEI Editors ... Center for Sex and Culture, doesn't just pay homage to **Reubens'** career as an ...
blogs.mercurynews.com/aei/2006/07/4th_annual_**paul**.html - 26k - <u>Cached</u> - <u>Similar pages</u>

The Squid List
The Drunken Redheaded Sluts presents **Paul Reubens' Day** V, a benefit for the St. ... Saturday...is '**Paul Reubens Day**', and i believe that we should all do our ...
laughingsquid.com/squidlist/events/index.php?
com=detail&eID=169889&year=2007&month=7 - 47k - <u>Cached</u> - <u>Similar pages</u>

Paul Rueben's **Day** 2007
The Drunken Redheaded Sluts presents **Paul Reubens' Day** V, a benefit for community sexual freedom fighters, St. James Infirmary & the Center for Sex and ...
www.**paulreubensday**.com/media/index.htm - 12k - <u>Cached</u> - <u>Similar pages</u>

MySpace
That's right, this Saturday **Paul Reubens Day** turns five, which is terribly apropos as we've been acting that age for years. We are revisiting North Beach, ...
forum.myspace.com/index.cfm?fuseaction=messageboard.
viewThread&entryID=39904961&groupID=104089879... - 27k - <u>Cached</u> - <u>Similar pages</u>

Music & Art: All Shook Down - Dozens of Pro-Jackoff Activists ...
A couple dozen people rallied in North Beach on Saturday for the annual **Paul Reubens Day** celebration. People dressed in costume as **Paul Reubens'** character, ...
blogs.sfweekly.com/shookdown/2007/07/bunch_of_jackoffs_celebrate_pe.php - 41k -
<u>Cached</u> - <u>Similar pages</u>

Amazon.com: **Paul Reubens**: DVD
Faerie Tale Theatre - Pinocchio ~ Don Novello, **Paul Reubens**, ... Get it by Monday, Oct 29 if you order in the next 7 hours and choose one-**day** shipping. ...
www.amazon.com/s?ie=UTF8&index=dvd&field-keywords=**Paul**%20**Reubens**&page=1 -
121k - <u>Cached</u> - <u>Similar pages</u>

Amazon.com: **Paul Reubens**: Books

Big Top Pee-Wee: The Movie Storybook by **Paul Reubens**, Nancy E. Krulik, ... Oct 29 if you order in the next 18 hours and choose one-**day** shipping. ...
www.amazon.com/s?ie=UTF8&keywords=**Paul**%20**Reubens**&index=books&page=1 - 121k

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Paul Reubens - Encyclopedia Dramatica
Some movie execs at Warner Brothers Studios were smoking crack one **day**, and decided
to let **Paul Reubens** make his very own movie. ...
www.encyclopediadramatica.com/**Paul_Reuben**s - 19k - Cached - Similar pages

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(WO/2005/069163) METHOD AND SYSTEM FOR A SELF-HEALING QUERY ACCESS ...
MURAS, Brian, Robert [US/US]; 2133 17th Street NE, Rochester, MN 55906 (US) (US
Only). RYG, Anne, Marie [US/US]; 61953 252nd Avenue, Mantorville, ...
www.wipo.org/pctdb/en/wo.jsp?wo=2005069163 - 14k - Cached - Similar pages

Apparatus and method for optimizing a computer database query that ...
Muras, Brian Robert (Rochester, MN, US) Nelson, Robert Russell (Rochester, MN, US)
Santosuosso, John Matthew (Rochester, MN, US). Application Number: ...
www.freepatentsonline.com/20060259457.html - 60k - Cached - Similar pages

Generating statistics for temporary tables during query ...
Muras, Brian Robert (Rochester, MN, US). Application Number:. 207055. Filing Date:.
08/18/2005. Publication Date:. 02/22/2007. View Patent Images: ...
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Patentee Index
Day, Paul Reuben; Muras, Brian Robert; and Ryg, Anne Marie, to International Business
Machines Corporation Query access plan rebuilds 07133861 Cl. 707-2. ...
uspto.gov/web/patents/patog/week45/OG/patentee/alphaD_Utility.htm - 89k -
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Day, Paul Reuben; Muras, Brian Robert; and Ryg, Anne Marie 07133861 Cl. 707-2.
Rygaard, Mary: See--. Price, Chuck; Stover, Kelley; Suplica, Thomas; Bray, ...
uspto.gov/web/patents/patog/week45/OG/patentee/alphaR.htm - 97k -
Cached - Similar pages
[More results from uspto.gov]

Query access plan rebuilds - US Patent 7133861
Brian Robert Muras · Anne Marie Ryg. Assignee. International Business Machines
Corporation. Application. No. 10727420 filed on 2003-12-04. Current US Class ...
www.patentstorm.us/patents/7133861.html - 14k - Cached - Similar pages

Method, query optimizer, and computer program product for ...
Inventor(s). Brian Robert Muras · Paul Reuben Day. Assignee. International Business
Machines Corporation. Application. No. 10443921 filed on 2003-05-22 ...
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mura.mcmaster.ca/Pages/MURA_Activities/MURAnewsltrOct05.pdf - Similar pages

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There's dazzling footwork, a score co-written by Alan Menken ("Beauty and the Beast") and
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Query Optimization
Bitmap Heap Scan on dbmail_messages m (cost=9.16..2871.63 rows=632 .... to debug
performance problems; Next by thread: Re: **Query Optimization**; **Index**(es): ...
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Re: Query Optimization
Re: **Query Optimization** .... rows=0 loops=1) > -> **Bitmap Index** Scan on >
dbmail_headername_lower_headername .... **Query Optimization**. From: Reinhard
Vicinus ...
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[PERFORM] Bitmap Index Scan optimization opportunity - Grokbase
It seems like the first **query** could move the searchName filter to the **Bitmap Index** Scan
phase, and save 97.5% of the page retrievals in the **Bitmap** Heap Scan ...
grokbase.com/.../2007/08/10/perform-**bitmap-index**-scan-**optimization**-
opportunity/ztAa2Z8hQ4D0ZJDoJEHTpliFd6k - 34k - <u>Cached</u> - <u>Similar pages</u>

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Kevin Grittner [PERFORM] **Bitmap Index** Scan **optimization** opportunity ... These **query**
times are the "fully cached" times for both, from doing a previous run ...
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B-tree key-range bit map index optimization of database queries ...
If there is no **index**, the system still creates a **bitmap**; each bit is set equal .... At step 331, if
all entities of a **query** satisfy Full Mode **optimization** ...
www.patentstorm.us/patents/5560007-description.html - 89k - <u>Cached</u> - <u>Similar pages</u>

Method and apparatus for using incompatible types of indexes to ...
Star/join **query optimization** Issued on: September 28, 1999 ... the step of accessing a
second **index** includes the step of accessing a **bitmap index**. ...
www.patentstorm.us/patents/6144957-claims.html - 34k - <u>Cached</u> - <u>Similar pages</u>
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19 Schema Modeling Techniques
Oracle's **query optimizer** automatically chooses the star transformation where ... In this star
query, a **bitmap index** on time_id is used to identify the set ...
www.stanford.edu/dept/itss/docs/oracle/10g/server.101/b10736/schemas.htm - 34k -
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Schema Modeling Techniques
The cost-based **optimizer** recognizes star queries and generates efficient .... In this star
query, a **bitmap index** on time_id is used to identify the set of ...
download-uk.oracle.com/docs/cd/A91202_01/901_doc/server.901/a90237/schemas.htm -
33k - <u>Cached</u> - <u>Similar pages</u>

11 The **Query Optimizer**
This upgrade results in the **query optimizer** enabling **optimization** ... The star transformation combines the **bitmap indexes** on the various fact table columns. ...
download.oracle.com/docs/cd/B28359_01/server.111/b28274/optimops.htm - 124k - Cached - Similar pages

O'Reilly - Safari Books Online - 0596001797 - Oracle Essentials ...
Oracle added support for stored **bitmap indexes** to Oracle 7.3 to provide a fast ... Oracle added an **optimization** for this type of star **query** to Oracle 7.3. ...
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Multidimensional domain modeling method and system - US Patent 5918232
B-tree key-range bit map **index optimization** of database queries ... **Simultaneous** evolution of the architecture of a multi-part program to solve a problem ...
www.patentstorm.us/patents/5918232-claims.html - 15k - Cached - Similar pages

Table format data presenting method, inserting method, deleting ...
A good example of this is the **bitmap index**. A **bitmap index** is a **bitmap** wherein ....
application of exclusive control whereby **simultaneous** access to the same ...
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Index
optimization. partition pruning. **indexes**, 5.6.5 ... parallel **query**, 25.3.1. **bitmap indexes**,
6.1.1: **index**-organized tables, 25.3.1.1: object types, 25.3.1.4 ...
download-uk.oracle.com/docs/cd/B19306_01/server.102/b14223/**index**.htm - 133k -
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Most common data modeling errors - Alex Antonatos
For **bitmap indexes**, a good estimate would be the number of unique values of the ... the
query optimizer can skip partitions that will have no matching rows, ...
www.appsconsultant.com/**index**.php?option=com_content&task=view&id=43&Itemid=9 -
31k - Cached - Similar pages

Data warehousing features in Informix OnLine XPS
Bitmap indexes , along with multi-**index** scans, ... Panos Kalnis , Dimitris Papadias, Multi-
query optimization for on-line analytical processing, ...
portal.acm.org/citation.cfm?id=383225 - Similar pages

[PDF] arXiv:0707.1548v1 [cs.DB] 11 Jul 2007
File Format: PDF/Adobe Acrobat - View as HTML
to the authors, the key factors to leverage **query optimization** is ..... We focus in this paper
on **bitmap index** selection (Aouiche, Darmont, Boussaïd, & ...
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Patents in Class 707/2
566, 6957222, Optimizing an outer join operation using a **bitmap index** structure .... A
database **query optimizer** for a computer system having dynamically ...
www.freepatentsonline.com/CCL-707-2-p12.html - 67k - Cached - Similar pages

Oracle Parallel **Query** for Data Warehouses
Figure 10.11 An Oracle bitmapped **index**. Here we can see how this **query** runs faster than
a traditional **query**. The Oracle **optimizer** will notice that the items ...
www.dba-oracle.com/data_warehouse/parallel_**query**.htm - 40k - Cached - Similar pages

2007 January 06 « H.Tonguç YILMAZ Oracle Blog
Bitmap indexes help in queries using OR or aggregates. ... Use hints to influence the
optimizer in choosing: • **Query** transformation • Join orders ...
tonguc.wordpress.com/2007/01/06/ - 51k - Cached - Similar pages

column oriented database c-store
Since each **bitmap** is sparse, it is run length encoded to save space. ..... C-Store **Query** Execution The **query optimizer** will accept a SQL **query** and construct ...
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